ENGINEERING STATEMENT IN SUPPORT OF COMMENTS BY CMCG PUERTO RICO LICENSE, LLC WMEI-DT CHANNEL 14 ARECIBO, PUERTO RICO

JANUARY 2007

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ENGINEERING STATEMENT IN SUPPORT OF COMMENTS BY CMCG PUERTO RICO LICENSE, LLC WMEI-DT CHANNEL 14 ARECIBO, PUERTO RICO

JANUARY 2007

SUMMARY

The following engineering statement has been prepared on behalf of CMCG Puerto Rico License, LLC ("CMCG"), permittee for full service TV station WMEI, Channel 60, as authorized in BMPCT-20060614ABI. By this filing, CMCG seeks a modification to its DTV allotment, as found in Appendix B of the Seventh Further Notice of Proposed Rulemaking in MB Docket No. 87-268, released October 20, 2006 ("Seventh Further Notice").

It is noted that WMEI DTV operation is not anticipated to occur until the DTV transition as Channel 14 is currently utilized by WTIN Channel 14 Analog, BLCT 19971208KF, Ponce, Puerto Rico at a site 2.92 kilometers from the WMEI Channel 60 site. The WMEI Channel 60 NTSC site is located 48.1 kilometers from the WMEI Channel 14 DTV allotment coordinates. It is clearly in the public interest to comport the WMEI DTV facility to the WMEI operating site as the clear intent of the DTV proceeding has been to replicate NTSC service if not to improve service when possible.

DTV ANALYSIS

Population data specified in the Seventh Further Notice takes into account existing NTSC service. Since WMEI does not plan DTV operation prior to the transition, population data specified herein does not consider NTSC facilities other than to assure protection of Class A LPTV.

The Seventh Further Notice and proposed WMEI DTV facilities are compared below:

	Seventh Further	
	<u>Notice</u>	Proposed
Facility ID	26676	26676
State and City	Arecibo, PR	Arecibo, PR
Channel	14	14
ERP (kW)	50	350
HAAT (m)	240	839
RC AMSL (m)	360	1328
Antenna ID	74697	
Latitude (DDMMSI)	182721	180917
Longitude (DDMMSS)	665259	663316
Area (sq. kM)	14,618.7	39,973.6
Population (persons)	1,154,735	3,529,824
% Received Interference	12.6%	1.44%

<u>Exhibit I</u>, attached, is an OET-69 analysis for the Seventh Further Notice Channel 14 allotment facility while <u>Exhibit II</u>, attached, is an OET-69 analysis for the proposed Channel 14 DTV allotment facility. The proposed allotment facility would have no impact on WTIN-DT Channel 15, BMPCDT-20040803ABE as the Seventh Further Notice population is 3,364,000 and the computed population, with the WMEI proposal considered, would be 3,418,039 persons. No interference to WSJN-CA was found. The proposed allotment site removes the current spacing violation to WTIN-DT.

PUBLIC INTEREST

Amending the proposed Table of Allotments to incorporate the WMEI proposal achieves the following public interest and allocation benefits:

- Spacing violation to WTIN-DT Channel 15 removed. The current Channel 14 allotment site
 is located 45.3 kM from WTIN-DT CH 15 DTV site while the WMEI proposed site is located
 2.9 kilometers from the WTIN-DT site.
- 2. New DTV service to 2,375,089 persons representing a 305.68% increase in population served.
- 3. Consolidation of the NTSC and DTV allotments at one site location.
- 4. No new interference to other stations when compared to Seventh Further Notice values.

CONCLUSION

The foregoing was prepared on behalf of CMCG PUerto Rico License, LLC by Clarence M. Beverage of Communications Technologies, Inc., Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey

January 25, 2007

Exhibit I

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-28-2006 Time: 13:40:22

Record Selected for Analysis

Comments Applicant

WMEI USERRECORD-01 ARECIBO PR US
Channel 14 ERP 50. kW HAAT 240. m RCAMSL 00360 m
Latitude 018-27-21 Longitude 0066-52-59
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	50.000	359.1	79.6
45.0	50.000	353.7	79.1
90.0	50.000	282.2	73.0
135.0	50.000	131.6	62.0
180.0	50.000	65.3	54.2
225.0	50.000	155.3	63.9
270.0	50.000	219.1	68.5
315.0	50.000	355.9	79.3

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WME I 14 ARECIBO PR USERRECORD01

and station

SHORT TO: WTIN-DT 15 PONCE

PR DTVPLN DTVP0189

18-10-11 66-34-38

Req. separation \Rightarrow 24.0 <= 110.0 Actual separation 45.3 Short 64.7 (21.3) km

SHORT TO: WTIN

15 PONCE

PR BMPCDT

20040803ABE

018-10-10 0066-34-36

Req. separation => 24.0 <= 110.0 Actual separation 45.3 Short 64.7(21.3) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountian

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed Station

Channel Call City/State ARN

14 WMEI ARECIBO PR USERRECORDO1

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	on Ref. No.
1.5	WTIN-DT	PONCE PR	45.3	PLN	DIALIN	~DTVP0189
15	WTIN	PONCE PR	45.4	CP MOD	BMPCDT	-20040803ABE
15	WSJN-CA	SAN JUAN PR	77.8	LIC	BLTTL	-19940223IC

Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel Call City/State Application Ref. No.
15 WTIN-DT PONCE PR DTVPLN -DTVP0189

Stations Potentially Affecting This Station

Chan	Call	City/State		Dist(km)	Status	Applicati	on Ref. No.
15	NEW	CHRISTIANSTED	VI	193.6	PLN	DTVPLN	-NPLN0940
16	WMTJ-DT	FAJARDO PR		84.1	PLN	DTVPLN	-DTVP0239
16	WTRA	MAYAGUEZ PR		65.6	PLN	DTVPLN	-NPLN0965

Results for: 15A PR PONCE DTVPLN DTVP0189 PLN HAAT 861.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3735741	34733.4
not affected by terrain losse	s 3459968	33800.4
lost to NTSC IX	74683	484.5
lost to additional IX by ATV	63031	116.1
lost to ATV IX only	87401	224.2
lost to all IX	137714	600.6

Analysis of current record

Channel Call City/State Application Ref. No.
15 WTIN-DT PONCE PR DTVPLN -DTVP0189

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
16	WMTJ	FAJARDO PR	84.1	CP MOD	BMPEDT -20030324ACY
16	WMTJ-DT	FAJARDO PR	84.1	PLN	DTVPLN -DTVP0239
14	WMEI	ARECIBO PR	45.3	APP	USERRECORD-01

Total scenarios = 4

Result key:

1

Scenario

1 Affected station

1

Before Analysis

Results for: 15A PR PONCE	DTVPI	N DTVP0189	PLN
HAAT 861.0 m, ATV ERP 50.0	kW		
	POPULATION	AREA (sq km)	
within Noise Limited Contour	3735741	34733.4	
not affected by terrain losses	3459968	33800.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	98791	428.5	
lost to ATV IX only	98791	428.5	
lost to all IX	98791	428.5	

Potential Interfering Stations Included in above Scenario

16A PR FAJARDO

BMPEDT 20030324ACY CP

After Analysis

PLN

Potential Interfering Stations Included in above Scenario 1

16A PR FAJARDO BMPEDT 20030324ACY CP 14A PR ARECIBO USERRECORD01 APP

*Percent Service lost without proposal: -1.2 to DTVPLN DTVP0189
*Percent Service lost with proposal: -1.0 to DTVPLN DTVP0189

DTVP0189

-1.3 to DTVPLN

Result key: 2 Scenario 2 Affected station Before Analysis Results for: 15A PR PONCE DTVPLN DTVP0189 PLN HAAT 861.0 m, ATV ERP 50.0 kW POPULATION AREA (sq km) within Noise Limited Contour 34733.4 3735741 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0.0 0 lost to additional IX by ATV 87401 224.2 lost to ATV IX only 87401 224.2 lost to all IX 87401 224.2 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO DTVPLN DTVP0239 PLN After Analysis Results for: 15A PR PONCE DTVPLN DTVP0189 PLN HAAT 861.0 m, ATV ERP 50.0 kW POPULATION AREA (sq km) within Noise Limited Contour 3735741 34733.4 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0 0.0 276.3 lost to additional IX by ATV 93796 lost to ATV IX only 93796 276.3 lost to all IX 93796 276.3 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO DTVPLN DTVP0239 14A PR ARECIBO USERRECORD01 APP *Percent Service lost without proposal: -1.5 to DTVPLN DTVP0189

*Percent Service lost with proposal:

Result key:

3

Scenario

3 Affected station

1

Before Analysis

Results for: 15A PR PONCE	DTVPL	N DTVP0189	PLN
HAAT 861.0 m, ATV ERP 50.0	kW		
	POPULATION	AREA (sq km)	
within Noise Limited Contour	3735741	34733.4	
not affected by terrain losses	3459968	33800.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	98791	428.5	
lost to ATV IX only	98791	428.5	
lost to all IX	98791	428.5	

Potential Interfering Stations Included in above Scenario

16A PR FAJARDO

BMPEDT

20030324ACY CP

After Analysis

Results for: 15A PR PONCE	DTVPI	N DTVP0189	PLN
HAAT 861.0 m, ATV ERP 50.0	kW		
	POPULATION	AREA (sq km)	
within Noise Limited Contour	3735741	34733.4	
not affected by terrain losses	3459968	33800.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	105186	480.5	
lost to ATV IX only	105186	480.5	
lost to all TX	105186	480.5	

Potential Interfering Stations Included in above Scenario 3

16A PR FAJARDO BMPEDT 20030324ACY CP 14A PR ARECIBO USERRECORDO1 APP

*Percent Service lost without proposal: -1.2 to DTVPLN DTVP0189
*Percent Service lost with proposal: -1.0 to DTVPLN DTVP0189

Result key: Scenario 4 Affected station Before Analysis Results for: 15A PR PONCE DTVPLN DTVP0189 PLN HAAT 861.0 m, ATV ERP 50.0 kW POPULATION AREA (sq km) within Noise Limited Contour 3735741 34733.4 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0 0.0 224.2 lost to additional IX by ATV 87401 lost to ATV IX only 87401 224.2 lost to all IX 87401 224.2 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO DTVPLN DTVP0239 After Analysis Results for: 15A PR PONCE DTVPLN DTVP0189 PLN HAAT 861.0 m, ATV ERP 50.0 kW AREA (sq km) POPULATION within Noise Limited Contour 3735741 34733.4 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0.0 0 lost to additional IX by ATV 93796 276.3 lost to ATV IX only 93796 276.3 lost to all IX 93796 276.3 Potential Interfering Stations Included in above Scenario DIVPLN 16A PR FAJARDO DTVP0239 PLN 14A PR ARECIBO USERRECORD01 APP DTVP0189 *Percent Service lost without proposal: -1.5 to DTVPLN

*Percent Service lost with proposal:

-1.3 to DTVPLN

DTVP0189

Analysis of Interference to Affected Station 2

Analysis of current record

Channel Call City/State Application Ref. No.

15 WIN PONCE PR BMPCDT -20040803ABE

Stations Potentially Affecting This Station

Chan	Call	City/St	tate	Dist(km)	Status	Application	on Ref. No.
16	WMTJ	FAJARDO I	PR	84.0	CP MOD	BMPEDT	-20030324ACY
16	WMTJ-DT	FAJARDO I	PR	84.0	PLN	DTVPLN	-DTVP0239
14	WMEI	ARECIBO E	PR	45.4	APP	USERRECORI	0-01

Total scenarios = 4

Result key: 5

Scenario 1 Affected station

Before Analysis

lost to all IX

Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 not affected by terrain losses 3580275 42477.8 0.0 lost to NTSC IX Ω lost to additional IX by ATV 572.6 145559 lost to ATV IX only 145559 572.6

Potential Interfering Stations Included in above Scenario 1

145559

572.6

16A PR FAJARDO BMPEDT 20030324ACY CP

After Analysis

Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 not affected by terrain losses 3580275 42477.8

within Noise Limited Contour	3797251	43122,5
not affected by terrain losses	3580275	42477.8
lost to NTSC IX	O	0.0
lost to additional IX by ATV	149351	584.6
lost to ATV IX only	149351	584.6
lost to all IX	149351	584.6

Potential Interfering Stations Included in above Scenario 1

16A PR FAJARDO BMPEDT 20030324ACY CP 14A PR ARECIBO USERRECORD01 APE

4A PR ARECIBOUSERRECORD01APP*Percent Service lost without proposal:-3.4 to BMPCDT20040803ABE*Percent Service lost with proposal:-3.3 to BMPCDT20040803ABE

Result key: Scenario 2 Affected station Before Analysis Results for: 15A PR PONCE BMPCDT HAAT 839.0 m, ATV ERP 380.2 kW POPULATION within Noise Limited Contour 3797251 not affected by terrain losses 3580275 lost to NTSC IX 0 lost to additional IX by ATV 105843

Potential Interfering Stations Included in above Scenario

16A PR FAJARDO

lost to ATV IX only

lost to all IX

DTVPLN DTVP0239

105843

105843

PLN

AREA (sq km)

43122.5

42477.8

0.0

248.3

248.3

248.3

20040803ABE CP

After Analysis

Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 not affected by terrain losses 3580275 42477.8 lost to NTSC IX 0.0 0 lost to additional IX by ATV 109635 260.3 lost to ATV IX only 109635 260.3 lost to all IX 109635 260.3

Potential Interfering Stations Included in above Scenario 2

16A PR FAJARDO DTVPLN DTVP0239 PLN 14A PR ARECIBO USERRECORD01 APP

*Percent Service lost without proposal: -4.6 to BMPCDT 20040803ABE *Percent Service lost with proposal: -4.5 to BMPCDT 20040803ABE

Result key: Scenario 3 Affected station 2 Before Analysis Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 not affected by terrain losses 3580275 42477.8 lost to NTSC IX 0 0.0 lost to additional IX by ATV 145559 572.6 lost to ATV IX only 145559 572.6 lost to all IX 145559 572.6 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO BMPEDT 20030324ACY CP After Analysis Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 3580275 42477.8

HAAT 839.0 m, ATV ERP 380.2 kW

POPULATION AREA (sq km)

within Noise Limited Contour 3797251 43122.5

not affected by terrain losses 3580275 42477.8

lost to NTSC IX 0 0.0

lost to additional IX by ATV 149351 584.6

lost to ATV IX only 149351 584.6

lost to all IX 149351 584.6

Potential Interfering Stations Included in above Scenario 3

16A PR FAJARDO BMPEDT 20030324ACY CP
14A PR ARECIBO USERRECORDO1 APP

*Percent Service lost without proposal: -3.4 to BMPCDT 20040803ABE *Percent Service lost with proposal: -3.3 to BMPCDT 20040803ABE

Result key: Scenario 4 Affected station Before Analysis Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 not affected by terrain losses 42477.8 3580275 lost to NTSC IX 0 0.0 lost to additional IX by ATV 248.3 105843 lost to ATV IX only 105843 248.3 lost to all IX 105843 248.3 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO DTVP0239 DTVPLN PLN After Analysis Results for: 15A PR PONCE BMPCDT 20040803ABE CP HAAT 839.0 m, ATV ERP 380.2 kW POPULATION AREA (sq km) within Noise Limited Contour 3797251 43122.5 42477.8 not affected by terrain losses 3580275 lost to NTSC IX 0.0 0 109635 lost to additional IX by ATV 260.3 lost to ATV IX only 109635 260.3 lost to all IX 109635 260.3 Potential Interfering Stations Included in above Scenario 16A PR FAJARDO DTVPLN DTVP0239 PLN14A PR ARECIBO APP USERRECORD01

*Percent Service lost without proposal:

*Percent Service lost with proposal:

-4.6 to BMPCDT

-4.5 to BMPCDT

20040803ABE

20040803ABE

Analysis of Interference to Affected Station 3

Analysis of current record

Channel Call City/State Application Ref. No.
15 WSJN-CA SAN JUAN PR BLTTL -19940223IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	n Ref. No.
15	WTIN-DT	PONCE PR	45.6	PLN	DTVPLN	-DTVP0189
15	WTIN	PONCE PR	45.6	CP MOD	BMPCDT	-20040803ABE
16	WMTJ	FAJARDO PR	39.2	CP MOD	BMPEDT	-20030324ACY
16	WMTJ-DT	FAJARDO PR	39.2	PLN	DTVPLN	-DTVP0239
17	WVEO-DT	AGUADILLA PR	106.9	PLN	DTVPLN	-DTVP0278
17	WVEO	AGUADILLA PR	106.9	CP MOD	BMPCDT	-20060705ABD
19	WKPV	PONCE PR	66.0	CP MOD	BMPCDT	-20040318ABY
19	MKBA-DL	PONCE PR	65.9	PLN	DTVPLN	-DTVP0369
23	WNJX-TV	MAYAGUEZ PR	87.8	CF WOD	BMPCDT	-20040115ACG
23	WNJX-DT	MAYAGUEZ PR	88.4	PLN	DTVPLN	-DTVP0540
29	WORA-DT	MAYAGUEZ PR	88.4	PLN	DTVPLN	-DTVP0763
29	WORA-TV	MAYAGUEZ PR	88.4	CP MOD	BMPCDT	~20060414AAR
30	WSJU-TV	SAN JUAN PR	7.9	LIC	BLCT	-19841129LB
14	WMEI	ARECIBO PR	77.8	APP	USERRECORD	-01
Prop	osal caus	es no interforence				

Analysis of Interference to Affected Station 4

Analysis of current record

Channel Call City/State Application Ref. No. WME I ARECIBO PR USERRECORD-01

Stations Potentially Affecting This Station

Dist(km) Status Application Ref. No. 45.3 PLN DTVPLN -DTVP0189 Call City/State 15 WTIN-DT PONCE PR 15 WTIN PONCE PR 45.4 CP MOD BMPCDT -20040803ABE

Total scenarios = 2

Result kev:

Scenario 1 Affected station

Before Analysis

Results for: 14A PR ARECIBO USERRECORD01 APP HAAT 240.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1813057	16971.2
not affected by terrain losses	1320877	15549.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	139341	575.2
lost to ATV IX only	139341	575.2
lost to all IX	139341	575.2

Potential Interfering Stations Included in above Scenario

15A PR PONCE DTVPLN DTVP0189 PLN

Result key: 10

2 Affected station Scenario

Before Analysis

Results for: 14A PR ARECIBO USERRECORD01 APP

HAAT 240.0 m, ATV ERP 50.0 kW

POPULATION AREA (sq km) within Noise Limited Contour 1813057 16971.2 not affected by terrain losses 1320877 15549.3 lost to NTSC IX Ω 0.0 166142 lost to additional IX by ATV 930.6 lost to ATV IX only 166142 930.6 lost to all IX 166142 930.6

Potential Interfering Stations Included in above Scenario

15A PR PONCE BMPCDT 20040803ABE CP FINISHED FINISHED FINISHED FINISHED FINISHED

Exhibit II

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-05-2006 Time: 17:47:27

Record Selected for Analysis

WMEI USERRECORD-01 ARECIBO PR US
Channel 14 ERP 350. kW HAAT 839. m RCAMSL 01328 m
Latitude 018-09-17 Longitude 0066-33-16
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.

Last update Cutoff date Docket Comments

Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits Channel 14 ERP = 350.00 HAAT = 839.

Azimuth	ERP	HAAT	41.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	177.929	703.5	109.3
45.0	309.260	659.5	112.4
90.0	84.329	762.2	104.8
135.0	126.405	1048.1	117.2
180.0	16.441	1128.7	99.5
225.0	33.623	1021,2	103.6
270.0	214.033	585.0	105.8
315.0	321.311	800.2	118.7

Evaluation toward Class A Stations

Contour overlap to Class A station WSJN-CA 15 SAN JUAN PR BLTTL D/U ratio at contour -14.50 dB Offset Proposed Offset Class A N Required D/U ratio: -14.0 Radial 252.0 degrees Bearing to point on contour 68.2 degrees D/U ratio at contour -15.16 dB Radial 253.0 degrees Bearing to point on contour 67.7 degrees D/U ratio at contour -15.35 dB Radial 254.0 degrees Bearing to point on contour 67.3 degrees D/U ratio at contour -15.42 dB Radial 255.0 degrees Bearing to point on contour 66.9 degrees D/U ratio at contour -15.39 dB Radial 256.0 degrees Bearing to point on contour 66.5 degrees D/U ratio at contour -15.31 dB Radial 257.0 degrees Bearing to point on contour 66.2 degrees D/U ratio at contour -15.26 dB Radial 258.0 degrees Bearing to point on contour 65.9 degrees D/U ratio at contour -15.62 dB Radial 259.0 degrees Bearing to point on contour 65.3 degrees D/U ratio at contour -16.08 dB Radial 260.0 degrees Bearing to point on contour 64.7 degrees D/U ratio at contour -16.71 dB Radial 261.0 degrees Bearing to point on contour 63.7 degrees D/U ratio at contour -17.59 dB Radial 262.0 degrees Bearing to point on contour 62.5 degrees D/U ratio at contour -18.56 dB Radial 263.0 degrees Bearing to point on contour 61.0 degrees D/U ratio at contour -19.39 dB Radial 264.0 degrees Bearing to point on contour 59.5 degrees D/U ratio at contour -20.06 dB Radial 265.0 degrees Bearing to point on contour 57.8 degrees D/U ratio at contour -20.49 dB Radial 266.0 degrees Bearing to point on contour 56.6 degrees D/U ratio at contour -20.88 dB Radial 267.0 degrees Bearing to point on contour 55.2 degrees D/U ratio at contour -21.79 dB

Radial 268.0 degrees Bearing to point on contour 53.0 degrees D/U ratio at contour -22.59 dB Radial 269.0 degrees Bearing to point on contour 50.8 degrees D/U ratio at contour -23.02 dB Radial 270.0 degrees Bearing to point on contour 49.0 degrees D/U ratio at contour -23.42 dB Radial 271.0 degrees Bearing to point on contour 46.8 degrees D/U ratio at contour -23.78 dB Radial 272.0 degrees Bearing to point on contour 44.1 degrees D/U ratio at contour -24.02 dB Radial 273.0 degrees Bearing to point on contour 41.9 degrees D/U ratio at contour -24.18 dB Radial 274.0 degrees Bearing to point on contour 39.9 degrees D/U ratio at contour -24.37 dB Radial 275.0 degrees Bearing to point on contour 37.9 degrees D/U ratio at contour -24.56 dB Radial 276.0 degrees Bearing to point on contour 35.7 degrees D/U ratio at contour -24.66 dB Radial 277.0 degrees Bearing to point on contour 33.6 degrees D/U ratio at contour -24.49 dB Radial 278.0 degrees Bearing to point on contour 31.8 degrees D/U ratio at contour -24.42 dB Radial 279.0 degrees Bearing to point on contour 30.0 degrees D/U ratio at contour -24.10 dB Radial 280.0 degrees Bearing to point on contour 28.8 degrees D/U ratio at contour -23.79 dB Radial 281.0 degrees Bearing to point on contour 27.8 degrees D/U ratio at contour -23.44 dB Radial 282.0 degrees Bearing to point on contour 27.6 degrees D/U ratio at contour -23.17 dB Radial 283.0 degrees Bearing to point on contour 26.8 degrees D/U ratio at contour -22.92 dB Radial 284.0 degrees Bearing to point on contour 25.7 degrees D/U ratio at contour -22.61 dB Radial 285.0 degrees Bearing to point on contour 24.5 degrees D/U ratio at contour -22.21 dB Radial 286.0 degrees Bearing to point on contour 23.5 degrees D/U ratio at contour -21.75 dB

Radial 287.0 degrees Bearing to point on contour 22.4 degrees D/U ratio at contour -21.18 dB Radial 288.0 degrees Bearing to point on contour 21.3 degrees D/U ratio at contour -20.59 dB Radial 289.0 degrees Bearing to point on contour 20.1 degrees D/U ratio at contour -19.85 dB Radial 290.0 degrees Bearing to point on contour 18.8 degrees D/U ratio at contour -19.25 dB Radial 291.0 degrees Bearing to point on contour 17.8 degrees D/U ratio at contour -18.80 dB Radial 292.0 degrees Bearing to point on contour 17.3 degrees D/U ratio at contour -18.37 dB Radial 293.0 degrees Bearing to point on contour 17.1 degrees D/U ratio at contour -17.96 dB Radial 294.0 degrees Bearing to point on contour 16.7 degrees D/U ratio at contour -17.50 dB Radial 295.0 degrees Bearing to point on contour 16.1 degrees D/U ratio at contour -17.07 dB Radial 296.0 degrees Bearing to point on contour 15.7 degrees D/U ratio at contour -16.67 dB Radial 297.0 degrees Bearing to point on contour 15.5 degrees D/U ratio at contour -16.31 dB Radial 298.0 degrees Bearing to point on contour 15.5 degrees D/U ratio at contour -15.97 dB Radial 299.0 degrees Bearing to point on contour 15.6 degrees D/U ratio at contour -15.63 dB Radial 300.0 degrees Bearing to point on contour 15.7 degrees D/U ratio at contour -15.29 dB Radial 301.0 degrees Bearing to point on contour 15.9 degrees D/U ratio at contour -14.91 dB Radial 302.0 degrees Bearing to point on contour 15.8 degrees D/U ratio at contour -14.52 dB Radial 303.0 degrees Bearing to point on contour 15.7 degrees D/U ratio at contour -14.18 dB Radial 304.0 degrees Bearing to point on contour 15.8 degrees

Class A Evaluation Complete

No spacing violations found to other full service stations

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility is 25.0km from FCC Monitoring station at Santa Isabel PR Bearing: 130.9 degrees ERP: 145.44 kW HAAT: 998.9 m Field = 61.3 mV/m

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountian

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed	*****
rroposea	Station

	ETOP	osed starton	
Channel	Call	City/State	ARN
14	WMEI	ARECIBO PR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	on Ref. No.
15	WTINDT	PONCE PR	2.9	PLN	DTVPLN	-DTVP0189
15	$\mathtt{WTIN}-\mathtt{DT}$	PONCE PR	2.9	MAX	DTVPLN	-DTVP0189
15	WTIN	PONCE PR	2.9	CP MOD	BMPCDT	-20040803ABE
15	WSJN-CA	SAN JUAN PR	43.9	LIC	BLTTL	~19940223IC

Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel Call City/State
15 WTIN-DT PONCE PR

Application Ref. No.
DTVPLN -DTVP0189

Stations Potentially Affecting This Station

Chan	Call	City/State		Dist(km)	Status	Application	on Ref. No.
14	WTIN	PONCE PR		0.0	PLN	DTVPLN	-NPLN0900
15	NEW	CHRISTIANSTED VI	I	193.6	PLN	DTVPLN	-NPLN0940
16	WMTJ-DT	FAJARDO PR		84.1	PLN	DTVPLN	-DTVP0239
16	WTRA	MAYAGUEZ PR		65.6	PLN	DTVPLN	-NPLN0965

Results for: 15A PR PONCE DTVPLN DTVP0189 PLN

HAAT 861.0 m, ATV ERP 50.0 kW

POPULATION AREA (sq km) 3735741 within Noise Limited Contour 34733.4 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 74683 484.5 lost to additional IX by ATV 63031 116.1 lost to ATV IX only 87401 224.2 lost to all IX 137714 600.6

NTSC Baseline Analysis

Channel Call City/State Application Ref. No.

14 WTIN PONCE PR DTVPLN -NPLN0900

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	n Ref. No.
15	WTIN-DT	PONCE PR	0.0	PLN	DTVPLN	-DTVP0189
15	NEW	CHRISTIANSTED VI	193.6	PLN	DTVPLN	-NPLN0940
16	WMTJ-DT	FAJARDO PR	84.1	PLN	DTVPLN	-DTVP0239
16	WTRA	MAYAGUEZ PR	65.6	PLN	DTVPLN	-NPLN0965
17	WVEO-DT	AGUADILLA PR	65.6	PLN	DTVPLN	-DTVP0278
18	WSJU	SAN JUAN PR	84.1	PLN	DIVPLN	-NPLN1029
21	WSJN-DT	SAN JUAN PR	77.3	PLN	DTVPLN	-DTVP0454
22	VTXLNW	MAYAGUEZ PR	43.5	PLN	DTVPLN	-NPLN1155
28	WKAQ-DT	SAN JUAN PR	55.7	PLN	DTVPLN	-DTVP0724
29	WORA-DT	MAYAGUEZ PR	43.6	PLN	DTVPLN	-DTVP0763

Results for: 14N PR PONCE DTVPLN NPLN0900 PLN

POPULATION AREA (sq km)

Within Noise Limited Contour 3735741 34733.4

not affected by terrain losses 3284959 33011.6

lost to NTSC IX 107975 376.4

lost to additional IX by ATV 110029 400.4

lost to all IX 218004 776.8

Analysis of current record

Channel Call City/State Application Ref. No. 15 WTIN-DT PONCE PR DTVPLN -DTVP0189

Stations Potentially Affecting This Station

Chan Call City/State Dist(km) Status Application Ref. No. 84.1 CP MOD BMPEDT 84.1 PLN DTVPLN 2.9 APP USERRECO 1.6 WMTJ FAJARDO PR WMTJ-DT FAJARDO PR 16 -DTVP0239 WMEI ARECIBO PR 14 USERRECORD-01

Total scenarios = 4

Result key:

Scenario 1 Affected station

Before Analysis

Results for: 15A PR PONCE PLN DTVPLN DTVP0189 HAAT 861.0 m, ATV ERP 50.0 kW POPULATION AREA (sq km) within Noise Limited Contour 3735741 34733.4

not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0 0.0 lost to additional IX by ATV 98791 428.5 lost to ATV IX only 98791 428.5 lost to all IX 98791 428.5

Potential Interfering Stations Included in above Scenario

16A PR FAJARDO

BMPEDT

20030324ACY CP

After Analysis

Results for: 15A PR PONCE DTVPLN DTVP0189 PLN

HAAT 861.0 m, ATV ERP 50.0 kW

POPULATION AREA (sq km) within Noise Limited Contour 34733.4 3735741 not affected by terrain losses 3459968 33800.4 lost to NTSC IX 0 0.0 lost to additional IX by ATV 123418 660.7 lost to ATV IX only 123418 660.7 lost to all IX 123418 660.7

Potential Interfering Stations Included in above Scenario

16A PR FAJARDO BMPEDT 20030324ACY CP

14A PR ARECIBO USERRECORD01 APP

*Percent Service lost without proposal: -1.2 to DTVPLN DTVP0189 *Percent Service lost with proposal: -0.4 to DTVPLN DTVP0189